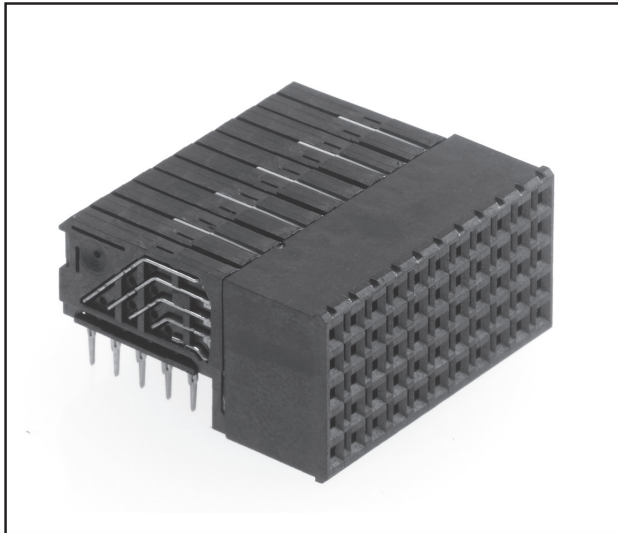


# 3M™ MetPak™ HSHM Press-Fit Socket

2 mm Type B11, 55 Signal Contacts, 5 Rows, Right Angle

HSHM Series



- Up to 5 Gb/s data rates
- Low crosstalk at high frequencies
- 50/100  $\Omega$  (single-ended /differential) impedance
- Modular/scalable format IEC 61076-4-101
- 63 mated lines per linear inch
- Mates with 3M™ MetPak™ HSHM headers
- Dual beam contact construction for high reliability
- End-to-end stackable with 5 row 3M™ MetPak™ CP2, HM and HSHM sockets
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3mconnector.com](http://www.3mconnector.com) for compliance information

Date Modified: October 7, 2010

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Sheet 1 of 3

## Physical

### Insulation

Material: High Temperature Thermoplastic (LCP)  
Flammability: UL 94V-0

### Contact

Material: Copper Alloy  
Plating: See Ordering Information

## Performance

### Mechanical:

Normal Force (Nominal): 0.57 N [58 g] Signal, 0.74 N [75 g] Shield  
Engagement Force (Nominal): 0.32 N [33 g] Signal, 0.22 N [22 g] Shield  
Separation Force (Nominal): 0.20 N [20 g] Signal, 0.20 N [20 g] Shield  
Wipe (Nominal, Shortest Contact): 2.67 mm [0.105 in] Signal, 1.57 mm [0.062 in] Shield  
Mate/Unmate Cycles: 250  
Application: This module is not suitable for stand-alone use. (Refer to IEC-61076-4-101)

### Electrical:

Data Rate: 5 Gb/s  
Characteristic Impedance: 50  $\Omega$  Single-ended, 100  $\Omega$  Differential  
Current Rating (Fully Loaded): 1 A @ 70°C Signal  
Insulation Resistance:  $10^4$  M $\Omega$  @ 100 V<sub>DC</sub>  
Withstanding Voltage: 750 V<sub>RMS</sub>

## Environmental

Temperature Rating: -55° C to 125° C

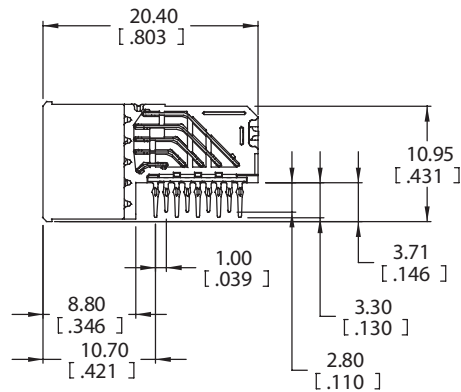
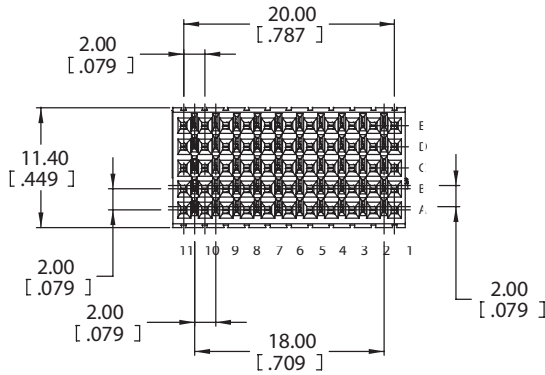
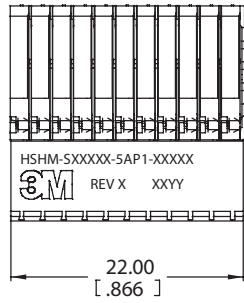
UL File No.: E68080

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# 3M™ MetPak™ HSHM Press-Fit Socket

2 mm Type B11, 55 Signal Contacts, 5 Rows, Right Angle

HSHM Series



mm (Inch)			
Tolerance Unless Noted			
	0	0.0	0.00
mm	±3	±0.3	±0.13

[ ] Dimensions for Reference Only

## Ordering Information

### HSHM-S055BX - 5AP1- XXXXX

High Speed Option: \_\_\_\_\_

1 = Row differential applications

4 = Coaxial and column differential applications

Plating  $\mu\text{m}$  [ $\mu\text{in}$ ]:

TG30 = 0.76 [30] Min. Au Contact Area  
 2.54 [100] Min. SnPb Terminal Area (RIA C2 & E2 apply)  
 1.27 [50] Min. Ni All over  
 Standard Option

TG30L = 0.76 [30] Min. Au Contact Area, Lubricated  
 2.54 [100] Min. SnPb Terminal Area (RIA C2 & E2 apply)  
 1.27 [50] Min. Ni All over  
 Typically higher make order quantities as compared to TG30.

TG50 = 1.27 [50] Min. Au Contact Area, Lubricated  
 2.54 [100] Min. SnPb Terminal Area (RIA C2 & E2 apply)  
 1.27 [50] Min. Ni All over  
 Non-Standard Option (Available with longer lead times and higher make order quantities, MOQ)

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 Sheet 2 of 3



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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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